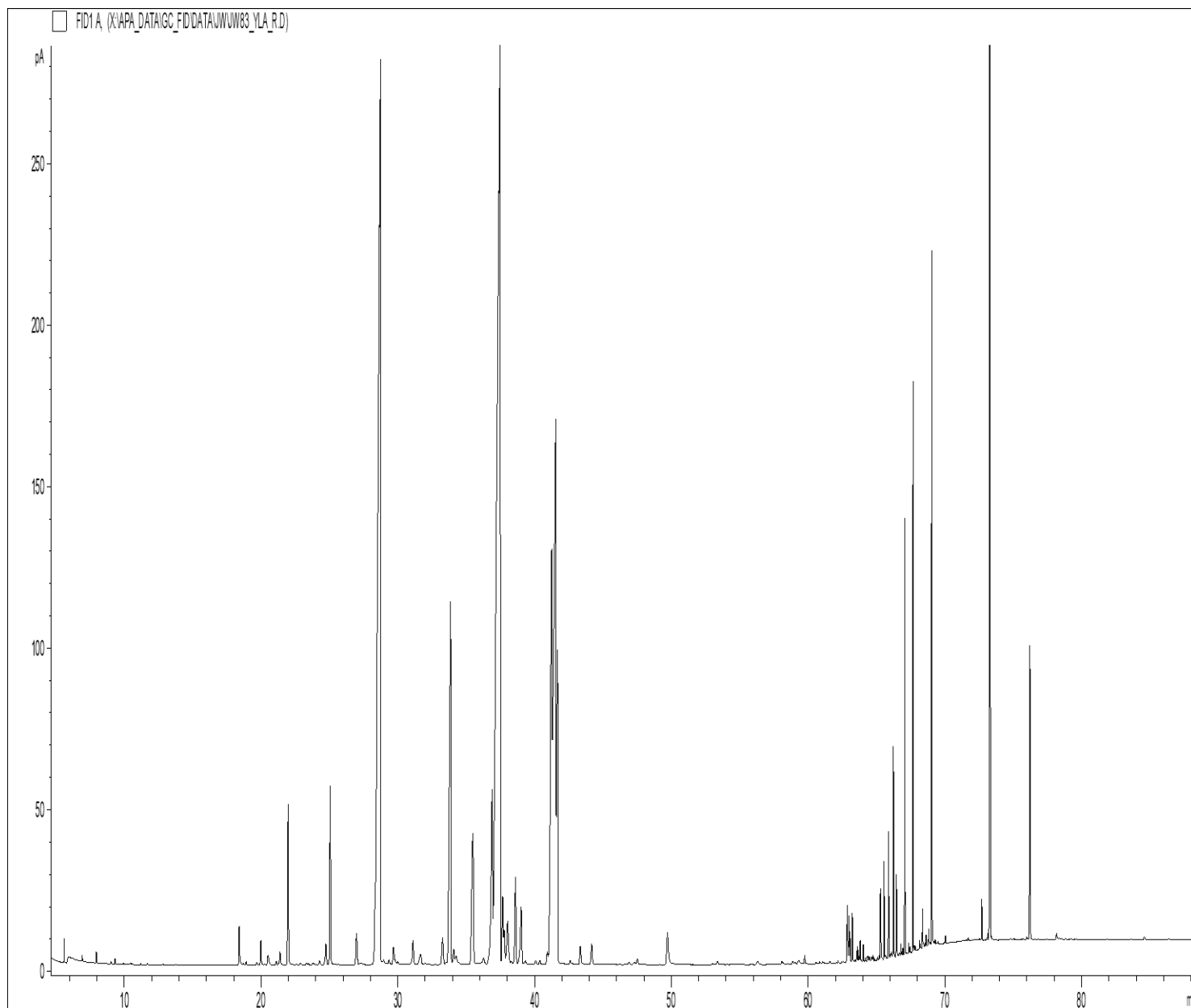


GCMS ANALYSIS

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#3) (Madagascar) – 11162

DATE: May 16, 2023



Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,

GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#3) (Madagascar) – 11162

Peak	RT (min)	Compound	%
1	5.60	alpha-PINENE	0.07
2	6.92	beta-PINENE	0.02
3	7.95	beta-MYRCENE	0.04
4	9.03	LIMONENE	0.01
5	9.33	1,8-CINEOLE	0.03
6	18.40	METHYL-p-CRESOL	0.28
7	18.91	SESQUITERPENE	0.02
8	19.67	SESQUITERPENE	0.02
9	19.99	alpha-CUBEBENE	0.17
10	20.50	SESQUITERPENE	0.11
11	21.11	BICYCLOELEMENE	0.03
12	21.39	YLANGENE	0.11
13	21.99	alpha-COPAENE	1.22
14	22.89	SESQUITERPENE	0.02
15	23.32	SESQUITERPENE	0.02
16	23.81	CYPERENE	0.02
17	24.28	SESQUITERPENE	0.04
18	24.74	beta1-CUBEBENE	0.20
19	25.06	LINALOOL	1.22
20	26.99	epsilon-CADINENE	0.33
21	27.22	SESQUITERPENE	0.01
22	27.34	ELEMENE ISOMER	0.02
23	28.22	beta-CUBEBENE	0.68
24		beta-ELEMENE	
25	28.73	beta-CARYOPHYLLENE	17.51
26	28.82	SESQUITERPENE	0.03
27	28.98	SESQUITERPENE	0.06
28	29.36	AROMADENDRENE	0.05
29	29.69	METHYL BENZOATE	0.21
30	30.00	SESQUITERPENE	0.03

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#3) (Madagascar) – 11162

Peak	RT (min)	Compound	%
31	31.12	CADINA-3,5-DIENE	0.25
32	31.67	GERMACRENE A	0.17
33	32.00	SESQUITERPENE	0.01
34	33.28	ZONARENE	0.31
35		ETHYL BENZOATE	
36	33.52	SESQUITERPENE	0.02
37	33.86	alpha-HUMULENE	4.47
38	34.09	E-beta-FARNESENE	0.16
39	34.27	SESQUITERPENE	0.14
40	35.49	gamma-MUUROLENE	1.82
41	35.76	SESQUITERPENE	0.03
42	36.28	alpha-TERPINEOL	0.12
43	36.90	Z,E-alpha-FARNESENE	2.32
44	37.49	GERMACRENE D	24.79
45	37.67	MUUROLADIENE ISOMER	0.63
46	37.78	SESQUITERPENE	0.30
47	38.03	BENZYL ACETATE	0.63
48	38.32	SESQUITERPENE	0.04
49	38.61	alpha-MUUROLENE	0.86
50	39.02	BICYCLOGERMACRENE	0.70
51	39.31	SESQUITERPENE	0.05
52	40.07	beta-CURCUMENE	0.04
53	40.38	SESQUITERPENE	0.04
54	40.94	SESQUITERPENE	0.13
55	41.24	E,E-alpha-FARNESENE	10.10
56	41.54	delta-CADINENE	3.37
57	41.68	GERANYL ACETATE	3.52
58	41.80	gamma-CADINENE	0.84
59	42.01	METHYL SALICYLATE	0.02
60	42.60	beta-SESQUIPHELLANDRENE	0.04

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#3) (Madagascar) – 11162

Peak	RT (min)	Compound	%
61	43.34	CADINA-1,4-DIENE	0.18
62	44.17	alpha-AMORPHENE	0.21
63	46.90	GERMACRENE B	0.03
64	47.29	trans-ANETHOL	0.02
65	47.30	cis-CALAMENENE	0.01
66	47.51	trans-CALAMENENE	0.07
67	49.71	GERANIOL	0.47
68	50.13	BUTYL BENZOATE	0.01
69	53.37	Epi-CUBEBOL	0.04
70	54.69	alpha-CALACORENE	0.01
71	56.31	SESQUITERPENOL	0.05
72	58.09	CUBEBOL	0.04
73	58.87	beta-CALACORENE	0.03
74	59.05	COMPOUND Mw=200	0.02
75	59.32	ISOCARYOPHYLLENE OXIDE	0.07
76	59.75	CARYOPHYLLENE OXIDE	0.06
77	60.57	AROMATIC ESTER	0.02
78	60.85	SESQUITERPENOL	0.02
79	61.07	AROMATIC COMPOUND	0.03
80	61.58	METHYLEUGENOL	0.02
81	62.19	NEROLIDOL	0.02
82	62.47	GERMACRENE D-4-OL	0.01
83	62.87	JUNEOL	0.32
84	62.99	Epi-CUBENOL	0.24
85	63.08	PRENYL BENZOATE	0.11
86	63.24	CUBENOL	0.24
87	63.42	ALIPHATIC ESTER	0.02
88	63.55	p-CRESOL	0.01
89	63.59	VIRIDIFLOROL	0.08
90	63.68	SESQUITERPENOL	0.05

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#3) (Madagascar) – 11162

Peak	RT (min)	Compound	%
91	63.75	SESQUITERPENOL	0.01
92	63.81	GUAIOL	0.10
93	64.03	AROMATIC COMPOUND	0.08
94	64.17	AROMATIC COMPOUND	0.02
95	64.33	COMPOUND Mw=220	0.02
96	64.37	EUDESMOL ISOMER	0.03
97	64.49	COMPOUND Mw=222	0.03
98	64.67	2-PHENYLETHYL METHYLVALERATE	0.03
99	64.76	cis-3-HEXENYL BENZOATE	0.03
100	65.08	SESQUITERPENOL	0.02
101	65.21	SESQUITERPENOL	0.02
102	65.29	CINNAMYL ACETATE	0.35
103	65.56	EUGENOL	0.37
104	65.66	SESQUITERPENOL	0.02
105	65.89	T-CADINOL	0.48
106	66.03	METHYLISOEUGENOL	0.02
107	66.10	PHENOLIC COMPOUND Mw=150	0.03
108	66.24	alpha-MUUROL	0.76
109	66.46	delta-CADINOL	0.29
110	66.49	CADINOL ISOMER	0.20
111	66.69	SESQUITERPENOL	0.01
112	66.79	SESQUITERPENOL	0.05
113	66.93	SESQUITERPENOL	0.03
114	67.07	alpha-CADINOL	1.49
115	67.37	EUGENYL ACETATE	0.04
116	67.44	SESQUITERPENOL	0.02
117	67.67	FARNESYL ACETATE	1.94
118	67.73	FARNESAL	0.02
119	67.80	AROMATIC COMPOUND	0.02
120	67.85	AROMATIC COMPOUND	0.02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: YLANG YLANG ESSENTIAL OIL (#3) (Madagascar) – 11162

Peak	RT (min)	Compound	%
121	68.16	AROMATIC COMPOUND	0.03
122	68.36	CHRYSANTHEMIC COMPOUND	0.15
123	68.43	TERPENIC COMPOUND	0.02
124	68.55	CHAVICOL	0.01
125	68.63	AROMATIC COMPOUND	0.05
126	68.82	ALIPHATIC ESTER	0.07
127	69.04	E,E-FARNESOL	2.71
128	69.21	COMPOUND Mw=220	0.01
129	69.30	AROMATIC COMPOUND	0.02
130	69.51	AROMATIC COMPOUND	0.01
131	70.04	AROMATIC COMPOUND	0.03
132	71.70	SESQUITERPENOL	0.01
133	72.70	GERANYL BENZOATE	0.17
134	73.13	ALIPHATIC ESTER	0.03
135	73.30	BENZYL BENZOATE	7.51
136	73.39	TERPENIC COMPOUND	0.02
137	76.21	BENZYL SALICYLATE	1.58
138	78.17	AROMATIC COMPOUND	0.05
139	84.60	TERPENIC COMPOUND	0.03
		TOTAL	99.99

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